

## BUILDING PRODUCT DECLARATION BPD 3

in compliance with the guidelines of the Ecocycle Council, June 2007

### 1 Basic data

<b>Product identification</b>		Document ID Knauf Insulation 01
Product name Knauf Insulation insulation	Product no/ID designation See attached sheet with article numbers	Product group BK04 - 01301
<input checked="" type="checkbox"/> New declaration <input type="checkbox"/> Revised declaration	<b>In the case of a revised declaration</b>	
	Has the product been changed?	The change relates to Changed product range
	<input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> Yes	Changed product can be identified by lambda 035
Drawn up/revised on (date) 2017-01-13		Inspected without revision on (date)
Other information: Additional information/ request from Bygghälsöbetygningen.		

### 2 Supplier information

Company name Knauf Insulation Ltd		Company reg. no/DUNS no	
Address Stafford Rd St Helens		Contact person Kenneth Ingemarsson Andrew Cawley	
		Telephone +46 (0) 708 385 77 05 +44 (0) 1744 76 66 96	
Website: knaufinsulation.com		E-mail ki@knaufinsulation.com andrew.cawley@knaufinsulation.com	
Does the company have an environmental management system?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
The company possesses certification in compliance with	<input checked="" type="checkbox"/> ISO 9000 <input checked="" type="checkbox"/> ISO 14000	<input type="checkbox"/> Other	If "other", please specify:
Other information:			

### 3 Product information

Country of final manufacture UK, RUSS		If country cannot be stated, please state why	
Area of use			
Is there a Safety Data Sheet for this product?		<input type="checkbox"/> Not relevant	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
In accordance with the regulations of the Swedish Chemicals Agency, please state:	Classification see other information	<input type="checkbox"/> Not relevant	
	Labelling see other information		
Is the product registered in BASTA?		<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Has the product been eco-labelled?	<input type="checkbox"/> Criteria not found <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If "yes", please specify:	
Is there a Type III environmental declaration for the product?		<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Other information: Classification of the glass fibres used are not applicable for this product. The fibres are in accordance with the directive 97/69/EC and European Regulation 1272/2008, nota Q.			

### 4 Contents (To add a new green row, select and copy an entire empty row and paste it in)

At the time of delivery, the product comprises the following parts/components, with the chemical composition stated:					
Constituent materials/ components	Constituent substances	Weight % or g	EG no/ CAS no (or alloy)	Classifi- cation	Comments
Glass mineral insulation	glass (alkali and alkaline earth	87- 100%	None	-	Glass fibres

Data in fields highlighted in green are requirements in compliance with the Ecocycle Council guidelines.

	oxides (CaO+MgO+NaO +K2O)>18%)				
	Thermoset polymer	0 – 13%	None	-	Binder
	Oil	<1%	None	-	Dust reducer
Other information: The "in situ" loft and loose fill products "Jet Stream" and "Perimeter Plus" do not have any binder (thermoset polymer). Mineral wool is listed under Regulation (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures, amending and repealing directive 67/548/EEC and 1999/45/EC, and amending regulation (EC) No 1907/2006; index no 650-016-00-2 of the list of harmonised classification and labeling of hazardous substances and Note Q. Mineral wool fibre (MMVF) note Q has also been registered under the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH); registration number 01-2119472313.					
If the chemical composition of the product after it is built in differs from that at the time of delivery, the content of the <b>finished built in product</b> should be given here. If the content is unchanged, no data need be given in the following table.					
Constituent materials/ components	Constituent substances	Weight % or g	EG no/ CAS no (or alloy)	Classifi- cation	Comments
Other information:					

## 5 Production phase

<b>Resource utilisation and environmental impact during production of the item is reported in one of the following ways:</b>			
<input checked="" type="checkbox"/> 1) Inflows (goods, intermediate goods, energy etc) for the registered product into the <b>manufacturing unit</b> , and the outflows (emissions and residual products) from it, i.e. from "gate-to-gate".			
<input type="checkbox"/> 2) All inflows and outflows from the extraction of raw materials to finished products i.e. "cradle-to-gate".			
<input type="checkbox"/> 3) Other limitation. State what:			
The report relates to unit of product per kg	<input type="checkbox"/> Reported product	<input type="checkbox"/> The product's product group	<input type="checkbox"/> The product's production unit
Indicate <b>raw materials and intermediate goods</b> used in the manufacture of the product		<input type="checkbox"/> Not relevant	
Raw material/intermediate goods	Quantity and unit	Comments	
Sand, Soda Ash, Borax, Dolomite, Limestone	403 grams	glass raw materials	
Manganese dioxide	6 grams	glass raw material	
Thermoset Bio resin	40 grams	Ecosse™ Technology binder componet	
Silane	0.05	Ecosse™ Technology binder component	
Oil	5	Dust suppressor	
Indicate <b>recycled materials</b> used in the manufacture of the product		<input type="checkbox"/> Not relevant	
Type of material	Quantity and unit	Comments	
Bottle cullet	353 grams		
Plate cullet	252 grams		
Enter the <b>energy</b> used in the manufacture of the product or its component parts		<input type="checkbox"/> Not relevant	
Type of energy	Quantity and unit	Comments	
Gas	<2.3kWhr/kg		
Electricity	<1kWhr/kg		
Enter the <b>transportation</b> used in the manufacture of the product or its component parts		<input type="checkbox"/> Not relevant	
Type of transportation	Proportion %	Comments	
Road	100		

Enter the <b>emissions to air, water or soil</b> from the manufacture of the product or its component parts				<input type="checkbox"/> Not relevant	
Type of emission	Quantity and unit			Comments	
Carbon Dioxide	<400g				
Ammonia	<1.5g				
Nitrogen Oxides	<0.5g				
Particles	<0.5g				
Enter the <b>residual products</b> from the manufacture of the product or its component parts				<input checked="" type="checkbox"/> Not relevant	
Residual product	Waste code	Quantity	Proportion recycled		Comments
			Material recycled %	Energy recycled %	
Fibre glass waste	10 11 03		100		
Is there a description of the data accuracy for the manufacturing data?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	If “yes”, please specify: This is available from the UK St Helens plant.		
Other information: Raw materials are melted in a furnace to form molten glass. Fibres are formed as the molten glass is forced out of holes in the side wall of a spinning disc. Binder is applied and a mat formed which is then cured in an oven at thickness.					

## 6 Distribution of finished product

Does the supplier put into practice a system for returning load carriers for the product?	<input type="checkbox"/> Not relevant	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Does the supplier put into practice any systems involving multi-use packaging for the product?	<input type="checkbox"/> Not relevant	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Does the supplier take back packaging for the product?	<input type="checkbox"/> Not relevant	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Is the supplier affiliated to REPA?	<input type="checkbox"/> Not relevant	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Other information: The finished product is supplied in a compressed form (up to 90%) that recovers to working thickness when the packaging is removed or in the case of blowing wools when installed with a suitable machine. This increases the efficiency of transportation.			

## 7 Construction phase

Are there any special requirements for the product during storage?	<input type="checkbox"/> Not relevant	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	If “yes”, please specify: Products should be protected from wet weather where possible.
Are there any special requirements for adjacent building products because of this product?	<input type="checkbox"/> Not relevant	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	If “yes”, please specify:
Other information:				

## 8 Usage phase

Does the product involve any special requirements for intermediate goods regarding operation and maintenance?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	If “yes”, please specify:			
Does the product have any special energy supply requirements for operation?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	If “yes”, please specify:			
Estimated technical service life for the product is to be entered according to one of the following options, a) or b):						
a) Reference service life estimated as being approx.	<input type="checkbox"/> 5 years	<input type="checkbox"/> 10 years	<input type="checkbox"/> 15 years	<input type="checkbox"/> 25 years	<input checked="" type="checkbox"/> >50 years	Comments: Products will perform to specification for the life of the building.
b) Reference service life estimated to be in the interval of _____ years						
Other information: When used in construction, Knauf Insulation materials significantly reduce the energy required to achieve thermal comfort for the buildings inhabitants. The products can also contribute to the acoustic performance of the building.						

## 9 Demolition

Is the product ready for disassembly (taking apart)?	<input type="checkbox"/> Not relevant	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	If "yes", please specify: Materials can be lifted from the building prior to demolition. Loose wool materials can be sucked out using an appropriate machine
Does the product require any special measures to protect health and environment during demolition/disassembly?	<input type="checkbox"/> Not relevant	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	If "yes", please specify: Personal Protective Equipment should be worn in line with the safety data sheet.
Other information:				

## 10 Waste management

Is it possible to re-use all or parts of the product?	<input type="checkbox"/> Not relevant	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	If "yes", please specify: Uncontaminated material can be re-used.
Is it possible to recycle materials for all or parts of the product?	<input type="checkbox"/> Not relevant	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	If "yes", please specify: Uncontaminated material can be recycled.
Is it possible to recycle energy for all or parts of the product?	<input type="checkbox"/> Not relevant	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	If "yes", please specify:
Does the supplier have any restrictions and recommendations for re-use, materials or energy recycling or waste disposal?	<input type="checkbox"/> Not relevant	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	If "yes", please specify:
Enter the waste code for the <b>supplied</b> product 17 06 04				
Is the <b>supplied</b> product classed as hazardous waste?			<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
If the chemical composition of the product differs after having been built in from that which it had at the time of delivery, meaning that another waste code is given to the finished <b>built in</b> product, then this should be entered here. If it is unchanged, the following details can be omitted.				
Enter the waste code for the <b>built in</b> product				
Is the <b>built in</b> product classed as hazardous waste?			<input type="checkbox"/> Yes	<input type="checkbox"/> No
Other information: Under Environmental Protection Agency regulation's on the landfill gives the waste generated can be landfilled in non-hazardous waste.				

## 11 Indoor environment (To add a new green row, select and copy an entire empty row and paste it in)

When used as intended, the product gives off the following emissions:			<input type="checkbox"/> The product does not have any emissions	
Type of emission	Quantity [ $\mu\text{g}/\text{m}^2\text{h}$ ] or [ $\text{mg}/\text{m}^3\text{h}$ ]		Method of measurement	Comments
	4 weeks	26 weeks		
TVOC	Eurofins certified as less than $<50\mu\text{g}/\text{m}^2\text{h}$	not in existence	The Eurofins method is based on the published standards: ISO16000-3 ISO16000-6 ISO16000-9 and ISO16000-11	KI have Eurofin certification (Indoor air comfort gold) for all our factories and for all unfaced glasswool products. Emissions are tested at 3 days

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				and 4 weeks as per the ISO 16000 series relating to product emissions.
Formaldehyde	Eurofins certified as less than <5µg/m2h	not in existence	The Eurofins method is based on the published standards: ISO16000-3 ISO16000-6 ISO16000-9 and ISO16000-11	KI have certification (Indoor air comfort gold) for all out factories and for all unfaced glasswool products. Emissions are tested at 3 days and 4 weeks as per the ISO 16000 series relating to product emissions.
Can the product itself give rise to any noise?			<input checked="" type="checkbox"/> Not relevant	<input type="checkbox"/> Yes <input type="checkbox"/> No
Value		Unit	Method of measurement	
Can the product give rise to electrical fields?			<input checked="" type="checkbox"/> Not relevant	<input type="checkbox"/> Yes <input type="checkbox"/> No
Value		Unit	Method of measurement	
Can the product give rise to magnetic fields?			<input checked="" type="checkbox"/> Not relevant	<input type="checkbox"/> Yes <input type="checkbox"/> No
Value		Unit	Method of measurement	
Other information:				

## References

MSDS – SE – Blowing-Wool-Products\_EN.pdf, MSDS – SE – ECOSE-Products\_EN.pdf

## Appendices

The article numbers are the Knauf references for these products.

BPD 3: Product List (version 29/02/16)

Product Type	Product Name	Product Details	Article Number
Glass Mineral Wool Insulation	KNAUF SUPAFIL FRAME	Loose wool for lofts and rafters	2436637
Glass Mineral Wool Insulation	KNAUF SUPAFIL LOFT	Loose wool for lofts	429682
Glass Mineral Wool Insulation	KNAUF THERMO 046	Loose wool for lofts	2401104
Glass Mineral Wool Insulation	ECOBATT 035	45mm(thk) x 610mm x 1210mm	546953
Glass Mineral Wool Insulation	ECOBATT 035	70mm(thk) x 610mm x 1210mm	546960
Glass Mineral Wool Insulation	ECOBATT 035	95mm(thk) x 610mm x 1210mm	546965
Glass Mineral Wool Insulation	ECOBATT 035	120mm(thk) x 610mm x 1210mm	546856
Glass Mineral Wool Insulation	ECOBATT 035	145mm(thk) x 610mm x 1210mm	547249
Glass Mineral Wool Insulation	ECOBATT 035	170mm(thk) x 610mm x 1210mm	546799
Glass Mineral Wool Insulation	ECOBATT 035	195mm(thk) x 610mm x 1210mm	547607
Glass Mineral Wool Insulation	ECOBATT 035	45mm(thk) x 565mm x 1160mm	587115
Glass Mineral Wool Insulation	ECOBATT 035	70mm(thk) x 565mm x 1160mm	587292
Glass Mineral Wool Insulation	ECOBATT 035	95mm(thk) x 565mm x 1160mm	587295
Glass Mineral Wool Insulation	ECOBATT 035	120mm(thk) x 565mm x 1160mm	587298

Glass Mineral Wool Insulation	ECOBATT 035	145mm(thk) x 565mm x 1160mm	587300
Glass Mineral Wool Insulation	ECOBATT 035	170mm(thk) x 565mm x 1160mm	587289
Glass Mineral Wool Insulation	ECOBATT 035	195mm(thk) x 565mm x 1160mm	587601
Glass Mineral Wool Insulation	ECOBATT 035	220mm(thk) x 565mm x 1160mm	587606
Glass Mineral Wool Insulation	ECOBATT 035	45mm(thk) x 460mm x 1205mm	550241
Glass Mineral Wool Insulation	ECOBATT 035	70mm(thk) x 460mm x 1205mm	550253
Glass Mineral Wool Insulation	ECOBATT 035	95mm(thk) x 460mm x 1205mm	550256
Glass Mineral Wool Insulation	ECOBATT 035	120mm(thk) x 460mm x 1205mm	550258
Glass Mineral Wool Insulation	ECOBATT 035	145mm(thk) x 460mm x 1205mm	550263
Glass Mineral Wool Insulation	ECOBATT 035	170mm(thk) x 460mm x 1205mm	550291
Glass Mineral Wool Insulation	ECOBATT 035	195mm(thk) x 460mm x 1205mm	550294
Glass Mineral Wool Insulation	ECOBATT 035	45mm(thk) x 410mm x 1205mm	550196
Glass Mineral Wool Insulation	ECOBATT 035	70mm(thk) x 410mm x 1205mm	550199
Glass Mineral Wool Insulation	ECOBATT 035	95mm(thk) x 410mm x 1205mm	550202
Glass Mineral Wool Insulation	ECOBATT 035	120mm(thk) x 410mm x 1205mm	550204
Glass Mineral Wool Insulation	ECOBATT 035	145mm(thk) x 410mm x 1205mm	550207



Product Type	Product Name	Product Details	Article Number
Glass Mineral Wool Insulation	ECOBATT 035	170mm(thk) x 410mm x 1205mm	550209
Glass Mineral Wool Insulation	ECOBATT 035	195mm(thk) x 410mm x 1205mm	550211
Glass Mineral Wool Insulation	ECOBLANKET 035	50mm(thk) x 2/570mm x 13.00m	547084
Glass Mineral Wool Insulation	ECOBLANKET 035	70mm(thk) x 2/570mm x 9.50m	548613
Glass Mineral Wool Insulation	ECOBLANKET 035	100mm(thk) x 2/570mm x 6.50m	547605
Glass Mineral Wool Insulation	ECOBLANKET 035	150mm(thk) x 2/570mm x 4.40m	546663
Glass Mineral Wool Insulation	ECOBATT 033	45mm(thk) x 565mm x 1160mm	2442585
Product Type	Product Name	Product Details	Article Number
Glass Mineral Wool Insulation	ECOBATT 033	70mm(thk) x 565mm x 1160mm	2442588
Glass Mineral Wool Insulation	ECOBATT 033	95mm(thk) x 565mm x 1160mm	2442591
Glass Mineral Wool Insulation	ECOBATT 033	120mm(thk) x 565mm x 1160mm	2442593
Glass Mineral Wool Insulation	ECOBATT 033	145mm(thk) x 565mm x 1160mm	2442595
Glass Mineral Wool Insulation	ECOBATT 033	170mm(thk) x 565mm x 1160mm	280991
Glass Mineral Wool Insulation	SPACE ROLL 039	50mm(thk) x 2/570mm x 22.0m	2408100
Glass Mineral Wool Insulation	SPACE ROLL 039	100mm(thk) x 2/570mm x 11.0m	2408104
Glass Mineral Wool Insulation	SPACE ROLL 039	150mm(thk) x 2/570mm x 7.2m	2413848
Glass Mineral Wool Insulation	SPACE SLAB 037	50mm(thk) x 570mm x 1200mm	316714
Glass Mineral Wool Insulation	SPACE SLAB 037	70mm(thk) x 570mm x 1200mm	316718
Glass Mineral Wool Insulation	SPACE SLAB 037	100mm(thk) x 570mm x 1200mm	316722

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Glass Mineral Wool Insulation	SPACE SLAB 037	150mm(thk) x 570mm x 1200mm	316728
Glass Mineral Wool Insulation	DREV	25mm x 60mm x 20.0m	425839
Glass Mineral Wool Insulation	BYGGMATTA	45mm x 1200mm x 11m	2412668
Glass Mineral Wool Insulation	BYGGMATTA	95mm x 1200mm x 5.5m	2412665
Glass Mineral Wool Insulation	Facade Board	45mm(thk) x 1200mm x 1800mm	474784
Glass Mineral Wool Insulation	Facade Board	70mm(thk) x 1200mm x 1800mm	474588